



CODESYS Communication XXL

The CODESYS Communication M license enables the use of the Symbol Configuration, Communication Manager and Datasource Manager. The exchange of an **unlimited** number of tags is allowed.

Product description

The publishing of data is done via OPC UA. Two use cases are supported for this:

- Variables of an application can be published by directly selecting them without having to define a specific information model.
- The usage of OPC UA Information Models. The support is implemented in a generic way. The object- and data types defined in information models can be converted to IEC data type declarations.

Receiving data is achieved by using data sources. The source can either be another CODESYS application or an OPC UA Server.

Performance classes Communication

Performance classes	Number of tags
Communication S	512
Communication M	4096
Communication XXL	unlimited

Base License

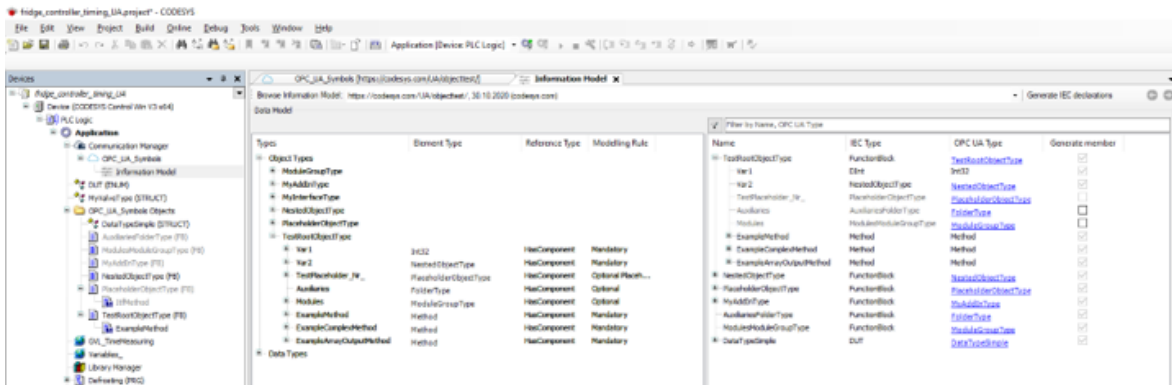
This license also acts as an upgrade license to upgrade from an already purchased application-based license (Base License) to a higher-performance license. The costs of the already purchased license (Base License) will be fully fully credited.

The CODESYS Communication S license is already included in the runtime system license by default.

The Base License must already be installed on the system, otherwise the license will be rejected during installation.

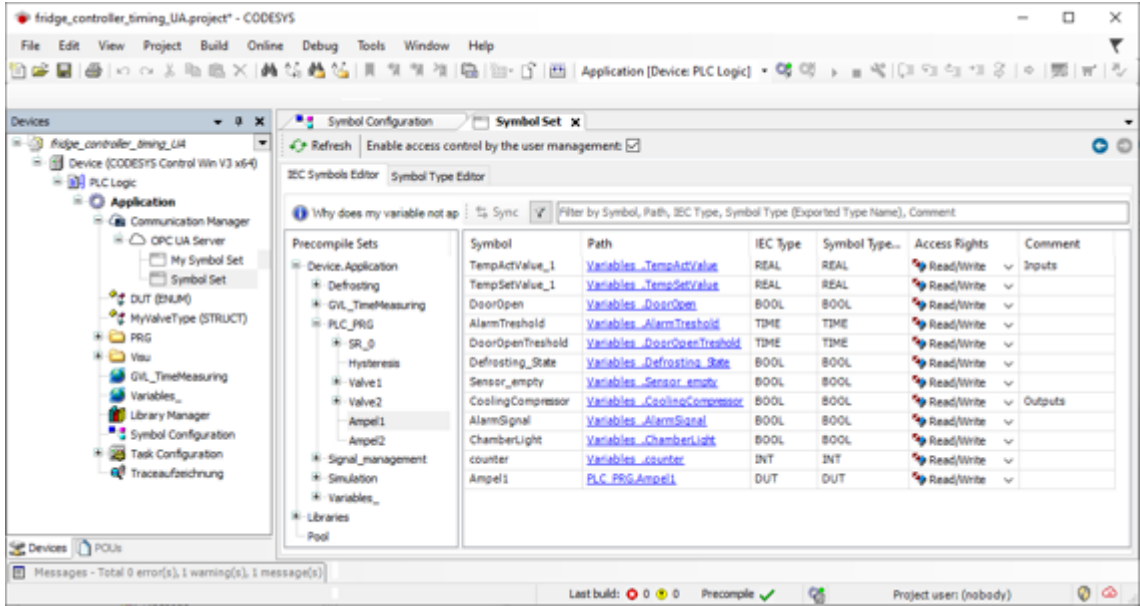
The OPC UA Information Models can be imported as NodeSet2.xml in CODESYS. A dedicated editor allows the conversion to the corresponding IEC declarations.

Usage of an OPC UA Information Model



Variables of an application can also be published conveniently over OPC UA without usage of an Information Model.

Publishing of variables using the Symbol Configuration



Data sources can be added and configured below the Data Sources Manager.

OPC UA data source

The screenshot displays the CODESYS environment for an OPCUA Client project. The 'Add Data Source' dialog is open, showing the 'Name' field set to 'Datatype' and the 'Select data source type' dropdown menu with 'CODESYS ApplicationV3' and 'OPCUA Server' options. The 'Datatype' table in the background lists various local variables and their mappings to remote variables.

Local variable	Access right	Update always	Create or Map	Type mapping	Remote variable
DeviceSet		<input checked="" type="checkbox"/>		DeviceSet	DeviceSet
CODESYS_Control_Win_V3		<input checked="" type="checkbox"/>		CODESYS_Control_Win_V3	CODESYS_Control_Win_V3
Resources		<input checked="" type="checkbox"/>		Resources	Resources
Application		<input checked="" type="checkbox"/>		Application	Application
GlobalVars		<input checked="" type="checkbox"/>		GlobalVars	GlobalVars
Variables_		<input checked="" type="checkbox"/>		Variables_	Variables_
AlarmSignal		<input checked="" type="checkbox"/>		BOOL	AlarmSignal
AlarmTreshold		<input checked="" type="checkbox"/>		LINT	AlarmTreshold
ChamberLight		<input checked="" type="checkbox"/>		BOOL	ChamberLight
CoolingCompressor		<input checked="" type="checkbox"/>		BOOL	CoolingCompressor
Defrosting_State		<input checked="" type="checkbox"/>		BOOL	Defrosting_State
DoorOpen		<input checked="" type="checkbox"/>		BOOL	DoorOpen
DoorOpenTreshold		<input checked="" type="checkbox"/>		LINT	DoorOpenTreshold
Sensor_empty		<input checked="" type="checkbox"/>		BOOL	Sensor_empty
TempActValue		<input checked="" type="checkbox"/>		REAL	TempActValue
TempSetValue		<input checked="" type="checkbox"/>		REAL	TempSetValue

The 'Add Data Source' dialog also includes a description: 'The data source object can be used to attach another data source to the current PLC.' Below the dialog, a ladder logic diagram shows a 'MOVE' instruction with 'NewSetTempValue' as the source and 'DeviceSet.CODESYS_Control_Win_V3.Resources.Application.GlobalVars.Variables_TempSetValue' as the destination.

General information

Supplier:

CODESYS GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

Technical support is not included with this product. To receive technical support, please purchase a CODESYS Support Ticket.

<https://support.codesys.com>

Item:

CODESYS OPC UA XXL

Item number:

2302000055

Sales/Source of supply:

CODESYS Store
<https://store.codesys.com>

Included in delivery:

- Package consisting of the CODESYS Development System including license agreement and online help

System requirements and restrictions

Programming System	CODESYS Development System V3.5.19.10 or higher CODESYS Communication V4.3.0.0 or higher
Runtime System	CODESYS Control V3.5.19.10 or higher
Supported Platforms/Devices	CODESYS Store runtime products for Windows and Linux Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	See license agreement. After installation, the user is responsible for implementing and checking the functionality of the combination of the software package and hardware according to device specifications.
Restrictions	-
Licensing	



Single device license: The license can be used on the target device/PLC on which the CODESYS runtime system is installed.

Licenses are activated on a software-based license container (soft container), which is permanently connected to the controller. Alternatively, the license can be stored on a CODESYS Key (USB dongle). By replugging the CODESYS Key, the license can be used on any other controller.

Note: In demo mode (no license for runtime and OPC UA), the software runs for two hours without a license. After that, a manual restart is required.

Required Accessories

Optional: CODESYS Key

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.

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